# PATENT COOPERATION TREATY

# Translation **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P27886/WO Kf			OR FURTHER ACTIO	N	See Form PCT/IPEA/416	
International application No.		Int	ernational filing date (day	/month/year)	Priority date (day/month/year)	
PCT/EP2004/001225		25 1	.0.02.2004		27.03.2003	
International Pat	ent Classification	(IPC) or national	classification and IPC			
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			ry examination report, es plicant according to Artic		International Preliminary Examining Authority	
2. This R	EPORT consists of	of a total of 13	3	_ sheets, including	g this cover sheet.	
3. This re	port is also accon	npanied by ANNI	EXES, comprising:			
a. L_	sent to the d	pplicant and to t	he International Bureau) :	a total of	sheets, as follows:	
		containing rectific			mended and are the basis for this report and/or le 70.16 and Section 607 of the Administrative	
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
ъ. 🗌	٦	nternational Bure	eau only) a total of (indica	te type and numbe	r of electronic carrier(s))	
					, containing a sequence listing and/or tables	
		, in computer rea			mental Box Relating to Sequence Listing (see	
4. This re	port contains indi	ications relating t	o the following items:			
$\boxtimes$	Box No. I	Basis of the rep	ort			
	Box No. II	Priority				
	Box No. III	Non-establishm	ent of opinion with regard	to novelty, invent	tive step and industrial applicability	
	Box No. IV	Lack of unity o	f invention			
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				lty, inventive step or industrial applicability;	
	Box No. VI	Certain docume	ents cited			
Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application						
Date of submission of the demand Date			Date of	of completion of th	uis report	
Name and maili	Name and mailing address of the IPEA/EP			orized officer		
Facsimile No.			Telep	hone No.		

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
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Box	No. I	Basis of the report	•		
1.		egard to the language, this report is based on the inte	ernational application in the language in	which it was filed, unless otherwise	
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:				
		international search (Rule 12.3 and 23.1(b))			
		publication of the international application (Ru	le 12.4)		
		international preliminary examination (Rule 55	.2 and/or 55.3)		
2.	recei	regard to the elements of the international application in the office in response to an invitation under Article (sport):  the international application as originally filed/furnis the description:	: 14 are referred to in this report as "o		
		pages <u>1-15</u>		as originally filed/furnished	
		pages*	received by this Authority on		
		pages*	received by this Authority on		
	$\boxtimes$	the claims:			
		nos.		as originally filed/furnished	
			as amended (togethe		
			received by this Authority on	27.01.2005 with letter	
			received by this Authority on		
	$\square$	the drawings:			
		sheets 1/4-4/4		on opininally filed/franished	
		· · · · · · · · · · · · · · · · · · ·		as originally filed/furnished	
			received by this Authority on received by this Authority on		
	$\Box$	sheets*			
	$\vdash$	a sequence listing and/or any related table(s) – see S	upplemental Box Relating to Sequence I	isting.	
3.		The amendments have resulted in the cancellation of	Ē:		
		the description, pages	· · · · · · · · · · · · · · · · · · ·		
•		the claims, nos.			
		the drawings, sheets/figs			
		the sequence listing (specify):			
		any table(s) related to sequence listing (specify	ψ:		
4.	$\boxtimes$	This report has been established as if (some of) the they have been considered to go beyond the disclosured to go beyond the gold the gold to go beyond the gold the gold to go beyond the gold to			
		the description, pages			
		the claims, nos. 7-8	··-		
		the drawings, sheets/figs		<del></del>	
		the sequence listing (specify):			
		any table(s) related to sequence listing (specifi	y):		
	* If item 4 applies, some or all of those sheets may be marked "superseded."				

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
	the entire international application				
$\bowtie$	claims Nos. 7-8				
because	the said international application, or the	e said claims Nos. hich does not require an international preliminary examination	(specify):		
	the description, claims or drawings (in are so unclear that no meaningful opin	dicate particular elements below) or said claims Nosion could be formed (specify):			
	the claims, or said claims Nos. 7-8 by the description that no meaningful		are so inadequately supported		
	no international search report has been	n established for said claims Nos.			
	the nucleotide and/or amino acid sequ Instructions in that:	nence listing does not comply with the standard provided for in	Annex C of the Administrative		
	the written form	has not been furnished			
		does not comply with the standard			
į	the computer readable form	has not been furnished does not comply with the standard			
	the tables related to the nucleotide ar technical requirements provided for in	nd/or amino acid sequence listing, if in computer readable for a Annex C-bis of the Administrative Instructions.	m only, do not comply with the		
	See Supplemental Box for further deta	ails.			

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Bo		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1.	Statement			
	Novelty (N)	Claims	1-12	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-12	NO
	Industrial applicability (IA	A) Claims	1-12	YES
		Claims		NO

- 2. Citations and explanations (Rule 70.7)
  - 2. This report makes reference to the following document, cited in the search report; the same numbering will be used throughout the procedure:

D1: CA-A-2 255 047 (IBM CANADA) 30 May 2000 (2000-05-30).

- 3. Inventive step, independent method claim 1
- 3.1 Document D1 is considered to be the closest prior art. Said document discloses, as set out in claim 1 (the references between parentheses refer to D1; the original wording of the claim is indicated in italics; features that are not explicitly described in D1 are struck through; differences between claim 1 and D1 are underlined), a method for determining deviations (page 1, line 5-6) in a modular end-system message generated in a hierarchical end system in a telecommunications device, (page 1, lines 26-29: "modified file" and figure 1, right-hand side: "PersonFile2.xml") relative to a reference message (page 1, lines 26-29: "base file" and figure 1, left-hand

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

side "PersonFNe.xml"), said method comprising the following method steps:

- inputting a reference message (page 10,
  line 20-21: "base ... XML file" and page 13,
  line 11: "the two input files");
- inputting an end-system message generated in
  the end system (page 10, lines 20-21:
  "modified XML file" and page 13, line 11:
  "the two input files");
- analysing the message structure of the reference message (page 10, lines 20-21: "the two files are parsed and two parse trees obtained");
- analysing the message structure of the generated end-system message (page 10, line 20-21: "the two files are parsed and two parse trees obtained");
- determining deviations of the end-system message relative to the reference message (page 6, line 7-21: "comparison of differencing trees") with regard to the structure and the values for the parameters of the structural elements (page 9, lines 3-9 in combination with page 10, lines 1-6 and figure 3(42) and ((52)); and
- outputting structural elements that deviate relative to the reference message, indicating the values of the parameters of each

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

structural element (page 9, lines 3-9 in combination with page 10, lines 1-6) and in figure 3 ((42) and (52)) of the end-system message generated in the end system (page 9, lines 11-13; page 13, lines 17-18 and figure 3).

- 3.2 Thus, the subject matter claim 1 differs from the prior art disclosed in D1 in that the end-system message is generated by a telecommunications device.
- 3.3 The application of the method for comparing XML documents, as per D1, to an end-system message generated by a telecommunications device constitutes just one application of the general method according to D1 to messages in the field of telecommunications. According to the description (see page 7, lines 11-19 and figure 3(7)) all messages in the claimed method are stored in XML format.

In consequence, the only difference between claim 1 and D1 is the fact that the XML description language according to D1 is applied to the structured representation of the content of messages from within the field of telecommunications.

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 3.4 Therefore, pursuant to the PCT Guidelines, paragraph 13.14(a)(v), the subject matter of claim 1 is **not** considered **inventive** (PCT Article 33(3)).
- 4. Inventive step, dependent claims 2-8

Dependent claims 2-8 do not appear to contain any additional features which, combined with the features of any claim to which they refer, meet the PCT requirements for inventive step. The reasons are as follows:

• Claims 2-4: in document D1, the following colour codings are used in order to indicate the differences between structural elements of the reference message and the message to be compared therewith (page 8, line 25-27 and figure 3):

black: identical in the reference message and the message to be compared therewith;

red: present only in the reference message,
 not in the message to be compared
 therewith;

blue: present only in the message to be compared, not in the reference message.

• Claim 5: the structural elements in D1 are shown as being hierarchical (page 3, lines 19-20 and figure 3(30)).

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- Claim 6: in D1, the output is displayed in a first area of the screen (page 8, line 23-25 and figure 3(30)).
- Claims 7 and 8: according to document D1 structural elements of the message to be compared (page 2, line 19 and figure 3(50)) and of the reference message (page 2, line 18 and figure 3(40)), respectively, are displayed in further areas of the screen (page 8, lines 25-27).

Therefore, claims 2-8 are not inventive (PCT Article 33(3)).

## 5. Inventive step, claims 9-12

The objections in relation to the lack of inventive step in method claims 1-8 also apply in a similar manner to the digital storage medium with control signals that can be read out electronically according to claim 9, which storage medium can be implemented only by means of the method steps according to claims 1-8.

The objections in relation to the lack of inventive step in method claims 1-8 also apply in a similar manner to the computer program according to claims 10-11, which program contains only program-code means for carrying out the method

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steps according to claims 1-8 regardless of whether the program is executed on a computer or stored on a machine-readable data carrier.

The objections in relation to the lack of inventive step in method claims 1-8 also apply in a similar manner to the computer program product according to claim 12, which computer program contains only program-code means for carrying out the method steps according to claims 1-8.

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Box	No. VI	Certain documents cited	<del>-</del>		
1.	Certain pul	olished documents (Rule 70.10)			
		Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
		Tatolit IVO.	(au), monus your/	(aay, menneyear)	(100):000
2.	Non-writte	en disclosures (Rule 70.9)			
		Kind of non-written disclosure	Date of non-written disc (day/month/year)	losure referrir	te of written disclosure ng to non-written disclosure (day/month/year)
l					

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Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

- 6.1 Contrary to PCT Rule 5.1(a)(ii), the description does not cite document D1 or indicate the relevant prior art disclosed therein.
- Independent claims 1 and 9-12 have not been drafted in the two-part form defined by PCT Rule 6.3(b). However, in the present case the two-part form would appear to be appropriate. Accordingly, the features known in combination from the prior art (document D1) should have been placed in the preamble (PCT Rule 6.3(b)(i)) and the remaining features specified in the characterising part (PCT Rule 6.3(b)(ii)).

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

7.1 The reference signs "24.1 $_{\rm END}$ , 24.1.1 $_{\rm END}$  and 28" are use in the description (see page 12, line 14) to refer to the structural elements that are present only in the end-system message. However, this is inconsistent with the use (see page 12, lines 31-32) of the reference signs "24.1 $_{\rm END}$ , 24.1.1 $_{\rm END}$  and 27" to refer to the same structural elements.

Form PCT/IPEA/409 (Box VIII) (January 2004)

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

# Box III

1. The amendments submitted with the letter of 27 May 2005 introduce substantive matter which, contrary to PCT Article 34(2)(b), goes beyond the disclosure in the international application as filed. The amendments, in claims 7-8, are as follows:

in claims 7-8: although the text "giving detailed information about the data flow" inserted into claims 7-8, is supported by an example in the description (page 13, line 27 to page 14, line 2) and in figure 5 ((30)-(32)), this does not support the substantially greater scope of protection according to the aforementioned generalised formulation. Therefore, in carrying out the substantive examination of claims 7-8, said amendment has been disregarded.